

Fig.5

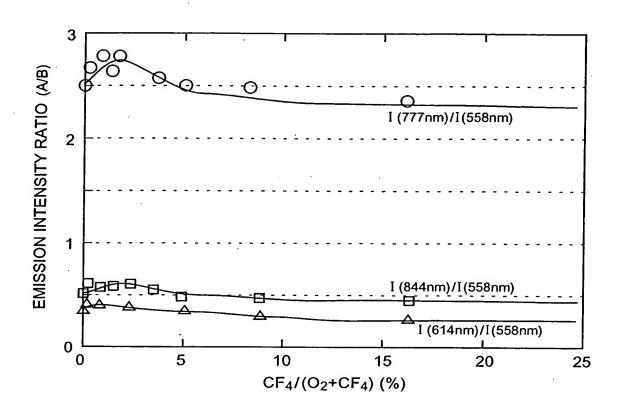


Fig.6

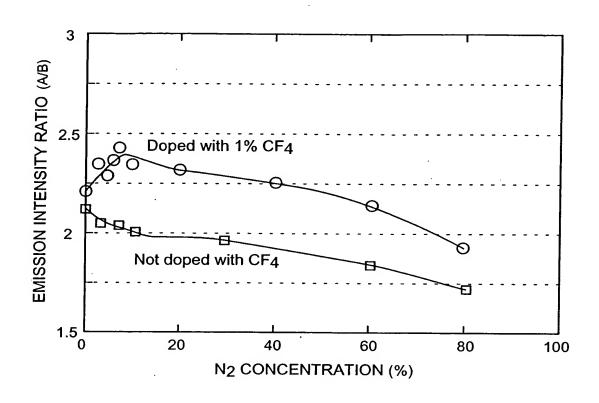


Fig.7

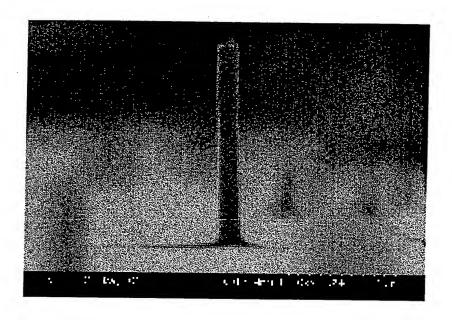


Fig.8

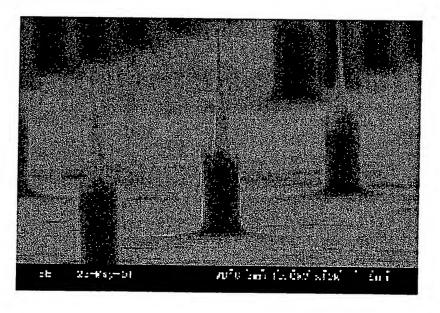


Fig.9

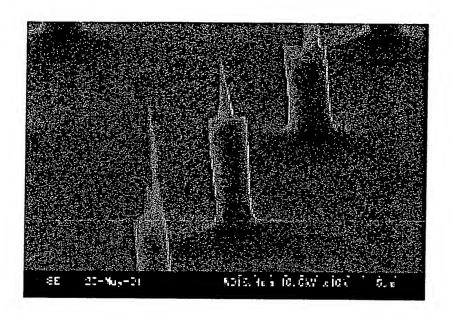


Fig.10

	Etching condition										
Sample No.	CF4/ (CF4+O2) (%)	•	C/ (total atms) (%)	. F/ (total atms) (%)	O/ (total atms) (%)	Power (W)	Power/ electrode area (W/cm2))	Pressure (Pa)			
Comparative example1	5		2	9	89	200	1.1	- 5			
Example1	3		1	6	93	200	1.1	5			
Example2	2		1	4	95	200	1.1	5			
Example3	1		0.5	2	97.5	200	1.1	5			
Example4	0.1		0.05	0.2	99.75	200	1.1	5			
Example5	0.05		0.02	0.1	99.88	200	1.1	5			
Example6	0.02		0.01	0.04	99.95	200	1.1	5			
Comparative example2	0.01		0.005	0.02	99.975	200	1.1	5			
Comparative example3	0(020NLY)		0.0	0.0	100	200	1.1	5			
Example7	1		5	2	97.5	50	0.28	5			
Example8	1		5	2	97.5	80	0.45	5			
Example9	1		5	2	97.5	200	1.1	5			
Example10	1		5	2	97.5	280	1.6	5			
Example11	1		5	2	97.5	200	1.1	0.1			
Example12	1		5	2	97.5	200	1.1	40			

## Fig.11

Sample No.	Surface state	Etching speed (diamond) (μm/h)	Etching depth (µm)	Angle of inclination	Etching speed (mask layer) ( \mu m/h)	Etching selection ratio
Comparative example1	0	3	1	72	3	1
Example1	0	5	10	88	0.28	18
Example2	0	8	16	89	0.27	30
Example3	0	10	20	90	0.25	40
Example4	0	9	18	90	0.23	39
Example5	0	8	16	90	0.22	36
Example6	0	.7	14	90	0.23	30
Comparative example2	×	3	6	87	0.2	15
Comparative example3	×	1	2	85	0.1	10
Example7	0	1.5	2	78	0.05	30
Example8	0	3	3	85	0.14	36
Example9	0	10	20	90	0.25	40
Example10	0	12	24	90	0.34	35
Example11	0	9	18	90	0.22	41
Example12	0	10	20	90	0.29	34

## Fig.12

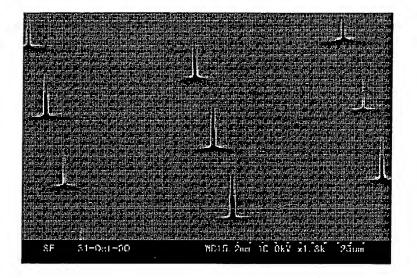


Fig.13

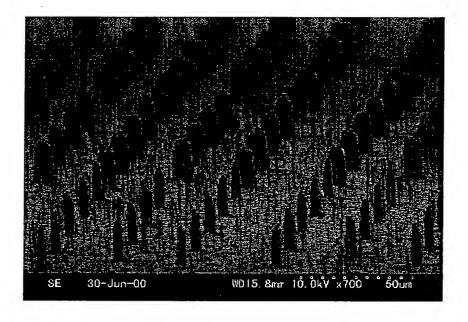


Fig.14A

PRIOR ART

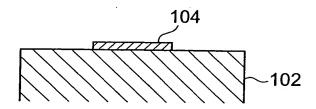


Fig.14B

PRIOR ART

